

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:628113 CAPLUS

DOCUMENT NUMBER: 133:222496

TITLE: Nitrosated and nitrosylated **prostaglandins**,
compositions and methods of useINVENTOR(S): Garvey, David S.; Gaston, Ricky D.; Saenz de Tejada,
Inigo; Tam, Sang William; Worcel, Manuel; **Letts, Gordon L.**

PATENT ASSIGNEE(S): Nitromed, Inc., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

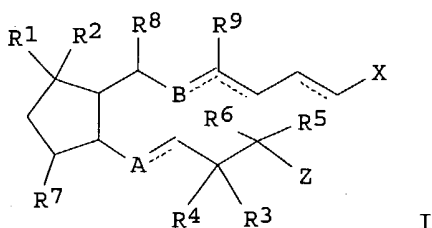
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000051978	A1	20000908	WO 2000-US5286	20000301
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1999-122273P	P 19990301
			US 1999-138502P	P 19990609
OTHER SOURCE(S):			MARPAT 133:222496	
GI				

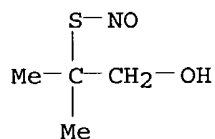


AB Novel nitrosated and/or nitrosylated **prostaglandins** I (R1 = OD1, Cl; R2, R8 = H, R1R2 = CH2, O; R3, R4 = H, OD1, Me; R5, R6 = H, OD1, Me, MeO, CH:CH2; R7 = H, OD1; R9 = H, allene functionality, R8R9 may form a benzene ring when R1 is a O atom; A = CH, CH2, S, O; B = CH, CH2, S, CO; X = CH2OR11, CO2R11, COND1R12; R11 = D1, alkyl, p-benzamidophenyl; R12 = SO2Me, COMe; Z = Et, Bu, hexyl, benzyl, etc; D1 = H, D; D = NO, NO2, etc) were prepared, and novel compns. were prepared comprising at least one nitrosated and/or nitrosylated **prostaglandin**, and, optionally, at least one compound that donates, transfers or releases nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor, stimulates endogenous synthesis of nitric oxide or is a substrate for nitric oxide synthase, and/or at least one vasoactive agent. The novel compns. contained at least one **prostaglandin** and at least one

S-nitrosothiol compound, and, optionally, at least one vasoactive agent. The **prostaglandin** is preferably a **prostaglandin E1** compound, more preferably alprostadiol, and the S-nitrosothiol compound is preferably S-nitrosoglutathione. The present invention also provides methods for treating or preventing sexual dysfunctions in males and females, for enhancing sexual responses in males and females, and for treating or preventing cerebrovascular disorders, cardiovascular disorders, benign prostatic hyperplasia (BPH), glaucoma, peptic ulcers or for inducing abortions. Thus, (2S,3S)-2,3,4-tris(nitroxy)butan-1-ol, prepared in 5 steps from (4S,5S)-4,5-bis(hydroxymethyl)-2,2-dimethyl-1,3-dioxolane, was treated with 7-[5-((1E)(3S)-3-hydroxyoct-1-enyl)(1R,4R,5R)-4-hydroxy-2-oxocyclopentyl]heptanoic acid to give (2S,3S)-2,3,4-tris(nitroxy)butyl 7-[5-((1E)(3S)-3-hydroxyoct-1-enyl)(1R,4R,5R)-4-hydroxy-2-oxocyclopentyl]heptanoate.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

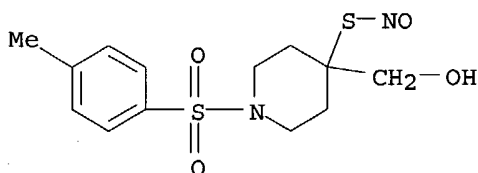
L3 ANSWER 1 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 291518-72-4 REGISTRY
 CN Thionitrous acid (HNOS), S-[2-hydroxy-1,1-dimethylethyl] ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C4 H9 N O2 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 291518-68-8 REGISTRY
 CN Thionitrous acid (HNOS), S-[4-(hydroxymethyl)-1-[(4-methylphenyl)sulfonyl]-4-piperidinyl] ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H18 N2 O4 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

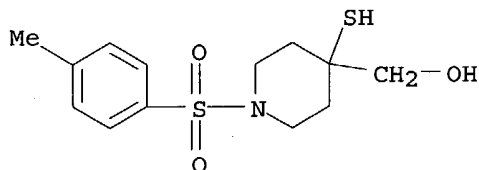


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2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 291518-65-5 REGISTRY
 CN 4-Piperidinemethanol, 4-mercapto-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

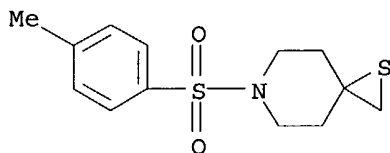
FS 3D CONCORD
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SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

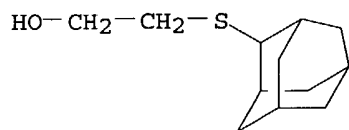
L3 ANSWER 4 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-62-2 REGISTRY
CN 1-Thia-6-azaspiro[2.5]octane, 6-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H17 N O2 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

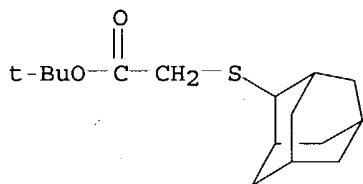
L3 ANSWER 5 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-59-7 REGISTRY
CN Ethanol, 2-(tricyclo[3.3.1.1^{3,7}]dec-2-ylthio)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H20 O S
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-58-6 REGISTRY
CN Acetic acid, (tricyclo[3.3.1.1.3]dec-2-ylthio)-, 1,1-dimethylethyl ester
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H26 O2 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

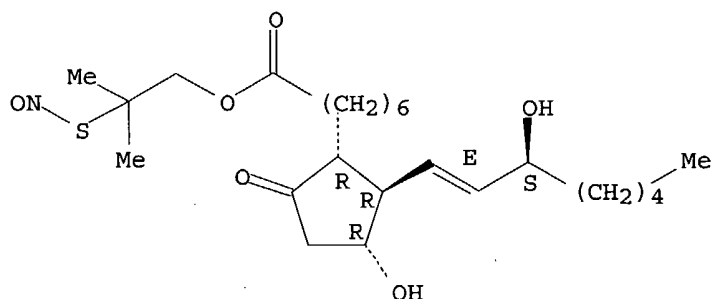


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-57-5 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 2-methyl-2-(nitrosothio)propyl ester, (11α,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H41 N O6 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

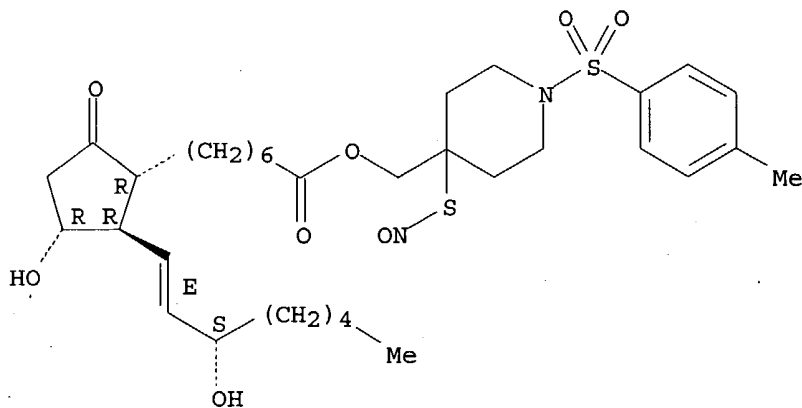


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-56-4 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, [1-[(4-methylphenyl)sulfonyl]-4-(nitrosothio)-4-piperidinyl]methyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H50 N2 O8 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

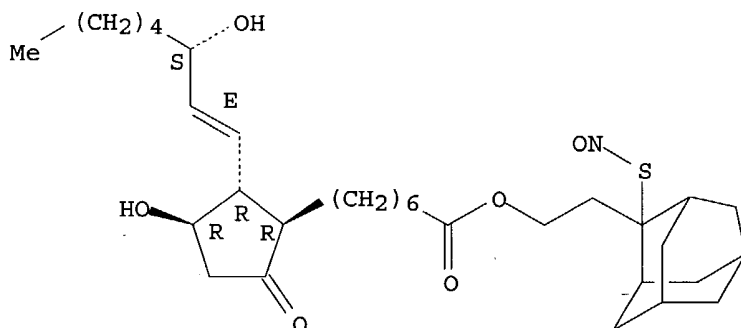


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-55-3 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 2-[2-(nitrosothio)tricyclo[3.3.1.1^{3,7}]dec-2-yl]ethyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C32 H51 N O6 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

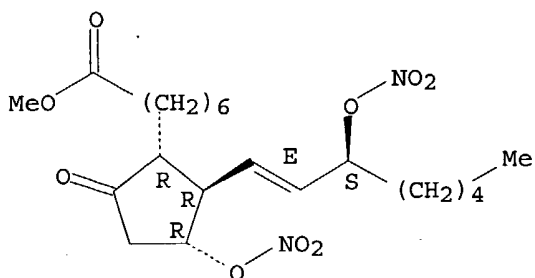


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-54-2 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, methyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H34 N2 O9
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

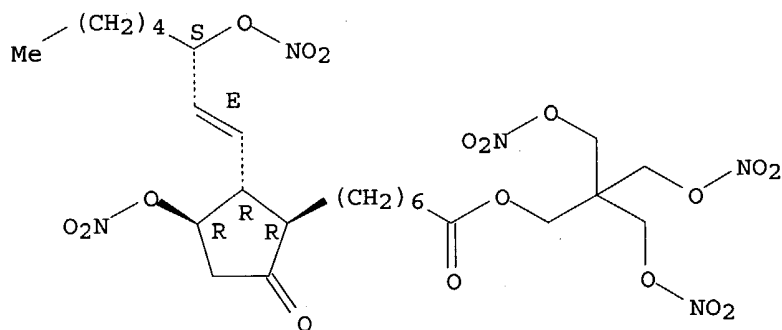


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-53-1 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, 3-(nitrooxy)-2,2-bis[(nitrooxy)methyl]propyl ester, (11α,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H39 N5 O18
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.



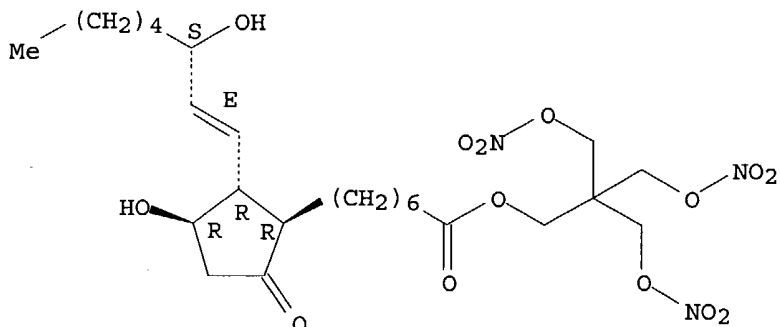
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-52-0 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, 3-(nitrooxy)-2,2-bis[(nitrooxy)methyl]propyl ester, (11α,13E,15S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH
 MF C25 H41 N3 O14
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT
 (Reactant or reagent); USES (Uses)

Absolute stereochemistry.
 Double bond geometry as shown.

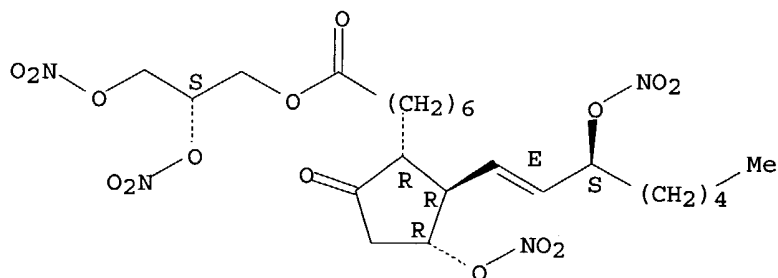


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1 REFERENCES IN FILE CA (1907 TO DATE)
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L3 ANSWER 13 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 291518-51-9 REGISTRY
 CN Prost-13-en-1-oic acid, 11,15-bis(nitrooxy)-9-oxo-, (2S)-2,3-bis(nitrooxy)propyl ester, (11 α ,13E,15S)-(9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H36 N4 O15
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
 (Uses)

Absolute stereochemistry.
 Double bond geometry as shown.

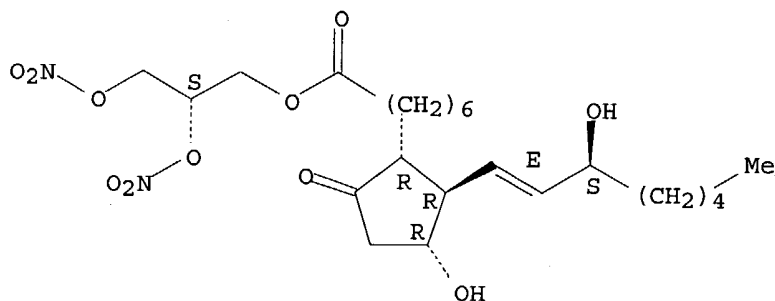


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 14 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-50-8 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (2S)-2,3-bis(nitrooxy)propyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H38 N2 O11
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

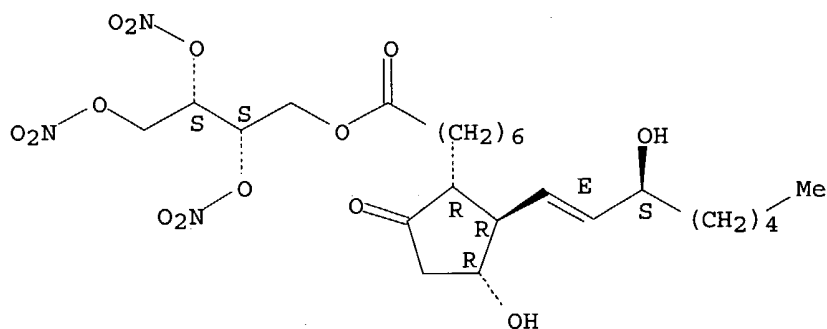


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-49-5 REGISTRY
CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (2S,3S)-2,3,4-tris(nitrooxy)butyl ester, (11 α ,13E,15S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C24 H39 N3 O14
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
Double bond geometry as shown.

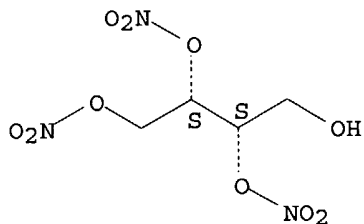


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-48-4 REGISTRY
CN 1,2,3,4-Butanetetrol, 1,2,3-trinitrate, (2S,3S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C4 H7 N3 O10
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DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

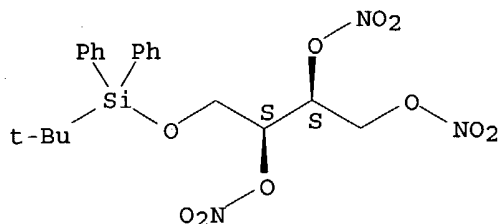


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-46-2 REGISTRY
CN 1,2,3-Butanetriol, 4-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, trinitrate, (2S,3S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H25 N3 O10 Si
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

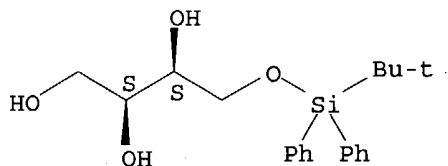


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 291518-44-0 REGISTRY
CN 1,2,3-Butanetriol, 4-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, (2S,3S)-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
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RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

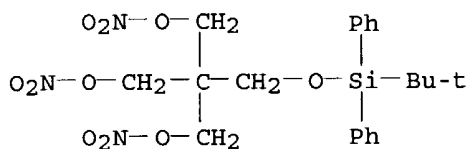
Absolute stereochemistry.



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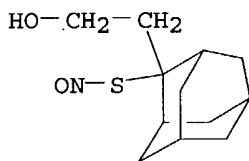
L3 ANSWER 19 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 260268-26-6 REGISTRY
CN 1,3-Propanediol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-
[(nitrooxy)methyl]-, dinitrate (ester) (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H27 N3 O10 Si
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)



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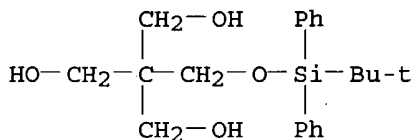
L3 ANSWER 20 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN **260268-08-4** REGISTRY
CN Thionitrous acid (HNOS), S-[2-(2-hydroxyethyl)tricyclo[3.3.1.1^{3,7}]dec-2-yl] ester (9CI) (CA INDEX NAME)
MF C12 H19 N O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)



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6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 21 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN **183236-36-4** REGISTRY
CN 1,3-Propanediol, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
DR 395069-71-3
MF C21 H30 O4 Si
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

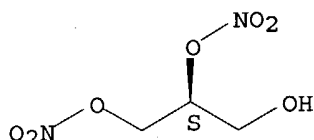


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10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN **154504-21-9** REGISTRY
CN 1,2,3-Propanetriol, 1,2-dinitrate, (2S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,2,3-Propanetriol, 1,2-dinitrate, (S)-
OTHER NAMES:
CN (2S)-2,3-Bis(nitrooxy)propan-1-ol
FS STEREOSEARCH
MF C3 H6 N2 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation)

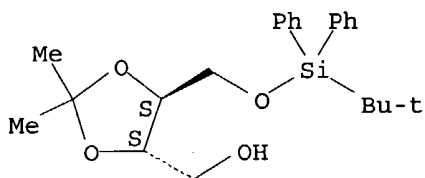
Absolute stereochemistry.

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN **127251-09-6** REGISTRY
CN 1,3-Dioxolane-4-methanol, 5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,2-dimethyl-, (4S,5S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3-Dioxolane-4-methanol, 5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,2-dimethyl-, (4S-trans)-
FS STEREOSEARCH
MF C23 H32 O4 Si
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)

13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 125978-95-2 REGISTRY

CN Synthase, nitric oxide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN E.C. 1.14.13.39

CN Nitric oxide synthase

CN Nitric oxide synthetase

CN NO synthase

MF Unspecified

CI MAN

SR CA

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CEN, CHEMCATS, CIN, CSCHEM, EMBASE, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL

DT.CA CAPLUS document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

19272 REFERENCES IN FILE CA (1907 TO DATE)

64 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

19313 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 25 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 73303-88-5 REGISTRY

CN 1-Propanol, 2-mercapto-2-methyl- (7CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

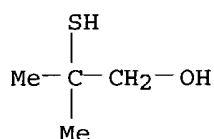
CN 2-(Hydroxymethyl)propane-2-thiol

CN 2-Mercapto-2,2-dimethylethanol

CN 2-Mercapto-2-methyl-1-propanol

CN 2-Methyl-2-mercapto-1-propanol

CN 2-Methyl-2-mercaptopropanol-1
 FS 3D CONCORD
 MF C4 H10 O S
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)



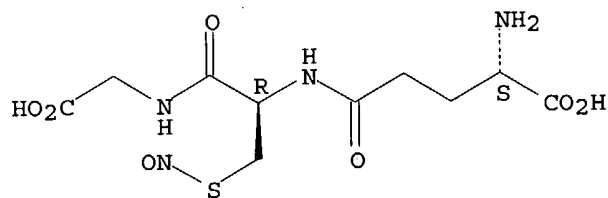
****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

18 REFERENCES IN FILE CA (1907 TO DATE)
 18 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 26 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 57564-91-7 REGISTRY
 CN Glycine, L-γ-glutamyl-S-nitroso-L-cysteinyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glycine, N-(N-L-γ-glutamyl-S-nitroso-L-cysteinyl)-
 OTHER NAMES:
 CN Nitrosoglutathione
 CN RVC 588
 CN RVC 588 (peptide)
 CN S-Nitrosoglutathione
 CN S-Nitrosylglutathione
 CN SNOG
 FS STEREOSEARCH
 DR 162764-02-5
 MF C10 H16 N4 O7 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CIN, CSChem, DDFU, DRUGU, EMBASE, IPA, MEDLINE, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological

study); PRP (Properties); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

645 REFERENCES IN FILE CA (1907 TO DATE)

14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

648 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 50622-09-8 REGISTRY

CN 1,3-Dioxolane-4,5-dimethanol, 2,2-dimethyl-, (4S,5S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Dioxolane-4,5-dimethanol, 2,2-dimethyl-, (4S-trans)-

OTHER NAMES:

CN (+)-2,3-O-Isopropylidene-L-threitol

CN (4S,5S)-4,5-Bis(hydroxymethyl)-2,2-dimethyl-1,3-dioxolane

CN 2,3-O-Isopropylidene-L-threitol

FS STEREOSEARCH

MF C7 H14 O4

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

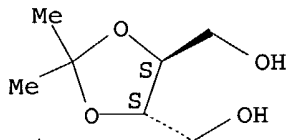
(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: ANST (Analytical study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

168 REFERENCES IN FILE CA (1907 TO DATE)

168 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 28 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 41661-47-6 REGISTRY

CN 4-Piperidinone (9CI) (CA INDEX NAME)

OTHER NAMES:

CN γ -Piperidinone

CN γ -Piperidone

CN 4-Oxopiperidine

CN 4-Piperidone

FS 3D CONCORD

MF C5 H9 N O

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, PROMT, PS, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

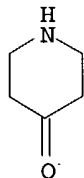
DT.CA CAPLUS document type: Book; Conference; Dissertation; Journal; Patent

RL.P Roles from patents: OCCU (Occurrence); PREP (Preparation); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); FORM (Formation,
nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties);
RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

272 REFERENCES IN FILE CA (1907 TO DATE)

24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

274 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 29 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 33439-27-9 REGISTRY

CN 4-Piperidinone, 1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4-Piperidone, 1-(p-tolylsulfonyl)- (8CI)

OTHER NAMES:

CN 1-(p-Toluenesulfonyl)-4-piperidone

CN 1-Tosyl-4-piperidinone

CN 1-Tosyl-4-piperidone

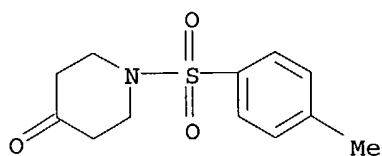
CN 1-[(4-Methylphenyl)sulfonyl]-4-piperidinone

CN N-p-Toluenesulfonyl-4-piperidone

FS 3D CONCORD

MF C12 H15 N O3 S

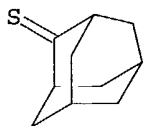
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

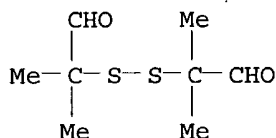
L3 ANSWER 30 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 23695-65-0 REGISTRY
CN Tricyclo[3.3.1.1^{3,7}]decanethione (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Adamantanethione (8CI)
OTHER NAMES:
CN 2-Thioadamantanone
CN Adamantan-2-thione
CN Adamantanethione
CN Thioadamantanone
CN Thioadamantone
FS 3D CONCORD
MF C10 H14 S
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMINFORMRX,
EMBASE, GMELIN*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Dissertation; Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: FORM (Formation, nonpreparative); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

132 REFERENCES IN FILE CA (1907 TO DATE)
132 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 31 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 15581-80-3 REGISTRY
 CN Propanal, 2,2'-dithiobis[2-methyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Propionaldehyde, 2,2'-dithiobis[2-methyl- (7CI, 8CI)
 OTHER NAMES:
 CN α,α' -Dithiobis(isobutyraldehyde)
 CN α,α' -Dithiodiisobutyraldehyde
 CN 2,2'-Dithiobis(2-methylpropanal)
 CN 2,2'-Dithiobis(2-methylpropionaldehyde)
 CN 2,2'-Dithiobisisobutyraldehyde
 CN 2,2'-Dithiodiisobutyraldehyde
 CN 2,2,5,5-Tetramethyl-3,4-dithiahexanedial
 CN Diisobutyraldehyde disulfide
 CN Dithiodiisobutyraldehyde
 FS 3D CONCORD
 MF C8 H14 O2 S2
 CI COM
 LC STN Files: AQUIRE, BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Journal; Patent; Report
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

93 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 93 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 32 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 10102-43-9 REGISTRY
 CN Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 43: PN: WO2004056314 SEQID: 64 claimed sequence
 CN Amidogen, oxo-
 CN INOmax
 CN Nitric oxide
 CN Nitric oxide (NO)
 CN Nitric oxide trimer

CN Nitrogen monooxide
 CN Nitrogen monoxide
 CN Nitrogen oxide (N4O4)
 CN Nitrogen(II) oxide
 CN Nitrosyl radical
 CN OHM 11771
 DR 53851-19-7, 51005-20-0, 51005-21-1, 90452-29-2
 MF N O
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM*,
 DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
 ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSPATENTS,
 IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA,
 PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL,
 VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
 Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
 in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation);
 PROC (Process); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
 NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)

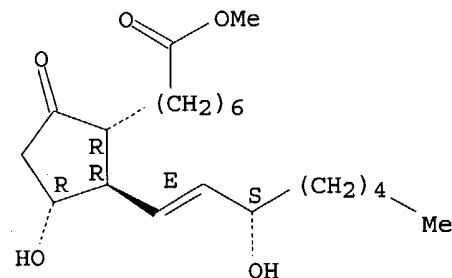
N=O

81252 REFERENCES IN FILE CA (1907 TO DATE)
 466 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 81435 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 33 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 3434-33-1 REGISTRY
 CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, methyl ester,
 (11 α ,13E,15S) - (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Cyclopentaneheptanoic acid, 3-hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo-,
 methyl ester, stereoisomer (8CI)
 OTHER NAMES:
 CN Methyl prostaglandin E1
 CN Prostaglandin E1 methyl ester
 FS STEREOSEARCH

DR 23452-93-9
 MF C21 H36 O5
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

72 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 72 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

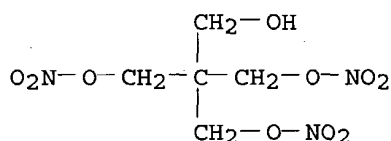
L3 ANSWER 34 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 1607-17-6 REGISTRY
 CN 1,3-Propanediol, 2,2-bis[(nitrooxy)methyl]-, mononitrate (ester) (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Pentaerythritol, trinitrate (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 3-Nitrooxy-2,2-bis(nitrooxymethyl)propan-1-ol
 CN Pentaerythrityl trinitrate
 CN Pentrinitrol
 CN Petrin
 CN W 2197
 FS 3D CONCORD
 DR 22026-67-1
 MF C5 H9 N3 O10
 CI COM
 LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: PROC (Process)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

120 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 120 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 35 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 745-65-3 REGISTRY

CN Prost-13-en-1-oic acid, 11,15-dihydroxy-9-oxo-, (11 α ,13E,15S)- (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cyclopentaneheptanoic acid, 3-hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo-, (-)- (8CI)

CN Cyclopentaneheptanoic acid, 3 α -hydroxy-2-(3-hydroxy-1-octenyl)-5-oxo- (7CI)

OTHER NAMES:

CN (-)-Prostaglandin E1

CN 11 α ,15(S)-Dihydroxy-9-oxo-13-trans-prostenoic acid

CN 11 α ,15 α -Dihydroxy-9-oxo-13-trans-prostenoic acid

CN Alprostadil

CN Alprox TD

CN Caverject

CN 1-PGE1

CN 1-Prostaglandin E1

CN Liple

CN Lipoprost

CN Minprog

CN NSC 165559

CN ONO 1608

CN Palux

CN PGE1

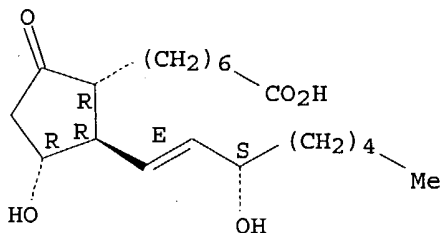
CN Prostaglandin E1

CN Prostandin

CN Prostandin 500

CN Prostin VR Pediatric
 CN Prostivas
 CN SEPA-alprostadil
 CN SEPA-PGE1
 CN SEPA-prostaglandin E1
 CN Topiglan
 CN U 10136
 FS STEREOSEARCH
 DR 50-83-9, 22299-37-2, 50865-30-0
 MF C20 H34 O5
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
 CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,
 EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS,
 IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR,
 PROMT, PROUSDDR, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL,
 VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
 Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
 (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses)

Absolute stereochemistry.
 Double bond geometry as shown.

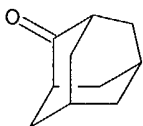


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8675 REFERENCES IN FILE CA (1907 TO DATE)
 153 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 8680 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 36 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 700-58-3 REGISTRY
CN Tricyclo[3.3.1.1³,7]decanone (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Adamantanone (6CI, 7CI, 8CI)
OTHER NAMES:
CN 2-Adamantone
CN 2-Oxoadamantane
CN Adamantanone
CN NSC 126345
CN Tricyclo[3.3.1.1³,7]decan-2-one
FS 3D CONCORD
DR 30997-34-3
MF C10 H14 O
CI COM
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD,
CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSChem,
DETERM*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDb, MEDLINE,
PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(*Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAPLUS document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study); FORM (Formation, nonpreparative); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

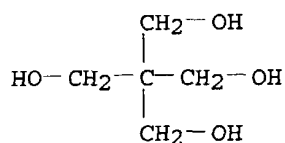
1442 REFERENCES IN FILE CA (1907 TO DATE)
16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1447 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 37 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
RN 115-77-5 REGISTRY
CN 1,3-Propanediol, 2,2-bis(hydroxymethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pentaerythritol (8CI)

OTHER NAMES:

CN 1,1,1-Tris(hydroxymethyl)ethanol
CN 2,2-Bis(hydroxymethyl)-1,3-propanediol
CN Auxinutril
CN Hercules P 6
CN Maxinutril
CN Metab-Auxil
CN Monopentaerythritol
CN Monopentek
CN Neulizer P
CN NSC 8100
CN PE 200
CN PE 200 (diol)
CN Penetek
CN Pentarit S
CN Pentek
CN PET 020
CN Tetra(hydroxymethyl)methane
CN Tetrakis(hydroxymethyl)methane
CN Tetramethylolmethane
CN THME
FS 3D CONCORD
DR 75398-86-6, 88201-29-0
MF C5 H12 O4
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES,
DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, MEDLINE,
MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO,
TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); MSC (Miscellaneous); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

9104 REFERENCES IN FILE CA (1907 TO DATE)
 3297 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 9119 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 38 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN

RN 78-84-2 REGISTRY

CN Propanal, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Isobutyraldehyde (8CI)

OTHER NAMES:

CN α -Methylpropionaldehyde

CN 190: PN: WO2004005270 PAGE: 28-29 claimed sequence

CN 2-Formylpropane

CN 2-Methyl-1-propanal

CN 2-Methylpropanal

CN 2-Methylpropionaldehyde

CN Dimethylacetaldehyde

CN iso-Butyraldehyde

CN Isobutanal

CN Isobutyral

CN Isobutyric aldehyde

CN Isobutyryl aldehyde

CN Isopropylcarboxaldehyde

CN Isopropylformaldehyde

CN NSC 6739

FS 3D CONCORD

DR 26140-46-5

MF C4 H8 O

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

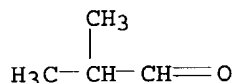
(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP

(Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10242 REFERENCES IN FILE CA (1907 TO DATE)
 130 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 10262 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 39 OF 39 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 70-18-8 REGISTRY
 CN Glycine, L-γ-glutamyl-L-cysteinyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutathione (8CI)
 CN Glycine, N-(N-L-γ-glutamyl-L-cysteinyl)-
 OTHER NAMES:
 CN γ-Glutamylcysteinylglycine
 CN γ-L-Glutamyl-L-cysteinylglycine
 CN 13: PN: CN1314415 PAGE: 8 claimed sequence
 CN 99: PN: WO2004025259 PAGE: 57 claimed sequence
 CN Agifutol S
 CN Copren
 CN Deltathione
 CN Glutathion
 CN Glutathione-SH
 CN Glutide
 CN Glutinal
 CN GSH
 CN Isethion
 CN L-Glutathione
 CN N-(N-L-γ-Glutamyl-L-cysteinyl)glycine
 CN Neuthion
 CN Reduced glutathione
 CN Tathion
 CN Tathione
 CN Triptide
 FS STEREOSEARCH
 MF C10 H17 N3 O6 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA,

MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

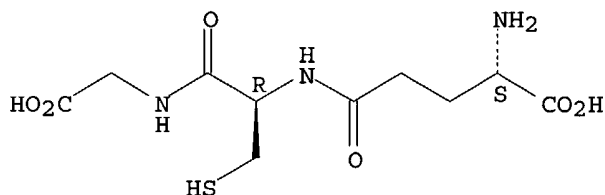
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36457 REFERENCES IN FILE CA (1907 TO DATE)
 1463 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 36509 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)